# Intro to Git and GitHub



### What is Git?

- Distributed version-control system
- Developed by Linus Torvalds in 2005
- Initially used for Linux kernel development

### What is GitHub?

- **■** Founded in 2008
- Web-hosting for Git repositories
- Collaboration and social tools for developers
- 3 million users / 5 million repos



### Why use GitHub?

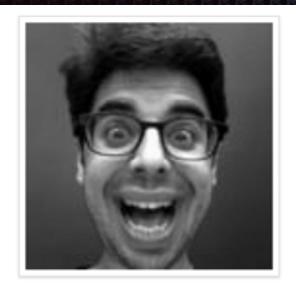
Online backup for version history

 Makes collaborating on projects with multiple developers simple

Easy to fork and contribute to existing projects

 Social platform for discovering the work of millions of fellow open-source developers





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**→** Contributions

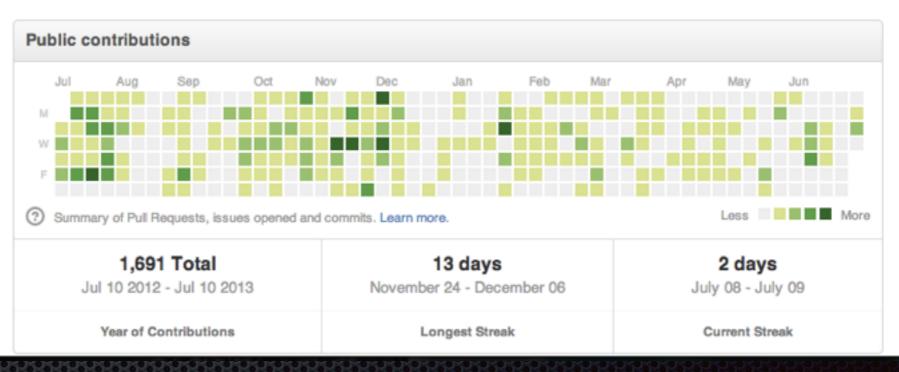
Repositories





Popular repositories	
The-Nature-of-Code Raw source of The Nature of Code boo	654 🚖
The-Nature-of-Code-Examples Repository for example code from The	176 🚖
☐ Iibfreenect  Just working on Processing library here	122 🚖
Most-Pixels-Ever The Most Pixels Ever is an open-source	108 🚖
PBox2D Processing JBox2D helper library and e	72 🛊

Repositories contributed to	
runemadsen/Magic-Book-Project The Magic Book Project is an open-sour	321 🚖
processing/processing-web Repository for the Processing.org web s	57 🚖
processing/processing Source code for the Processing Develo	552 🚖
ITPNYU/ICM ICM Class Main Repo	22 🛊
ITPNYU/BigScreens All examples for the Big Screens class	2 🛊





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Contributions

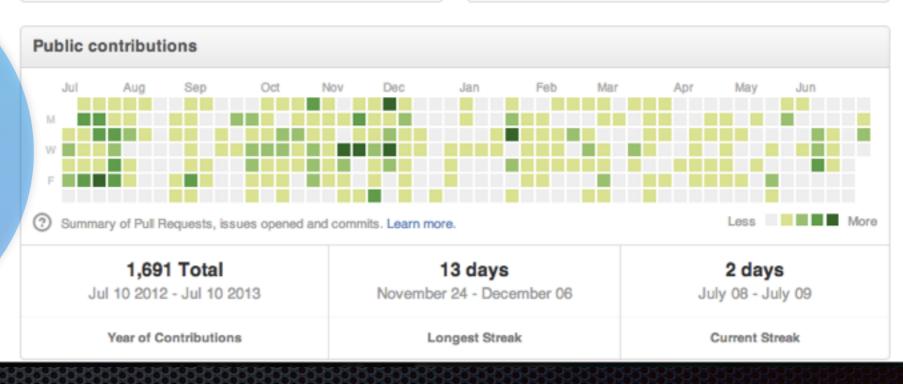
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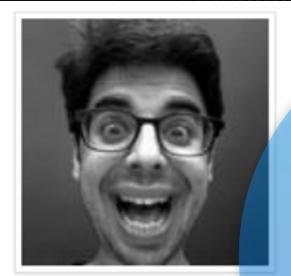




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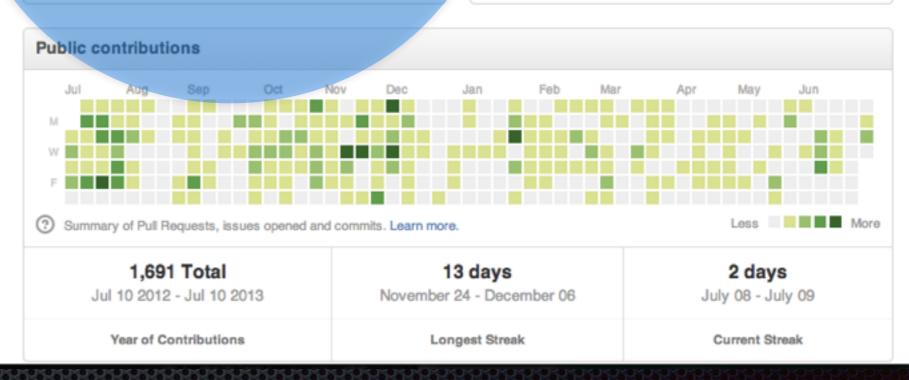


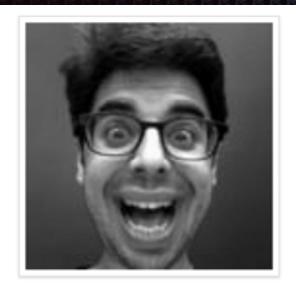




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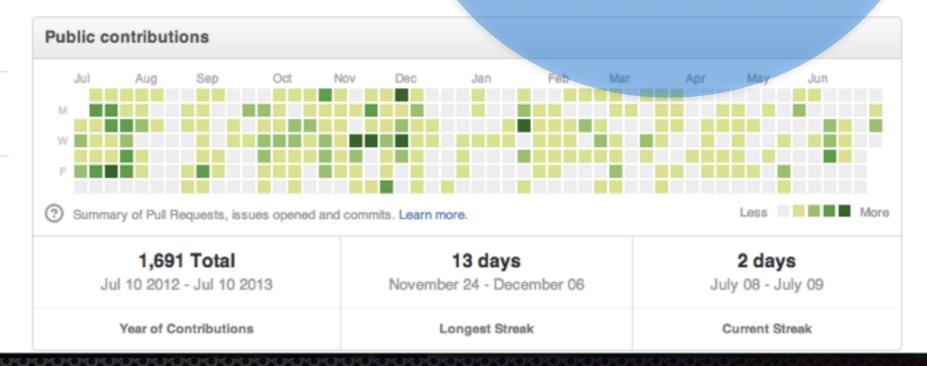
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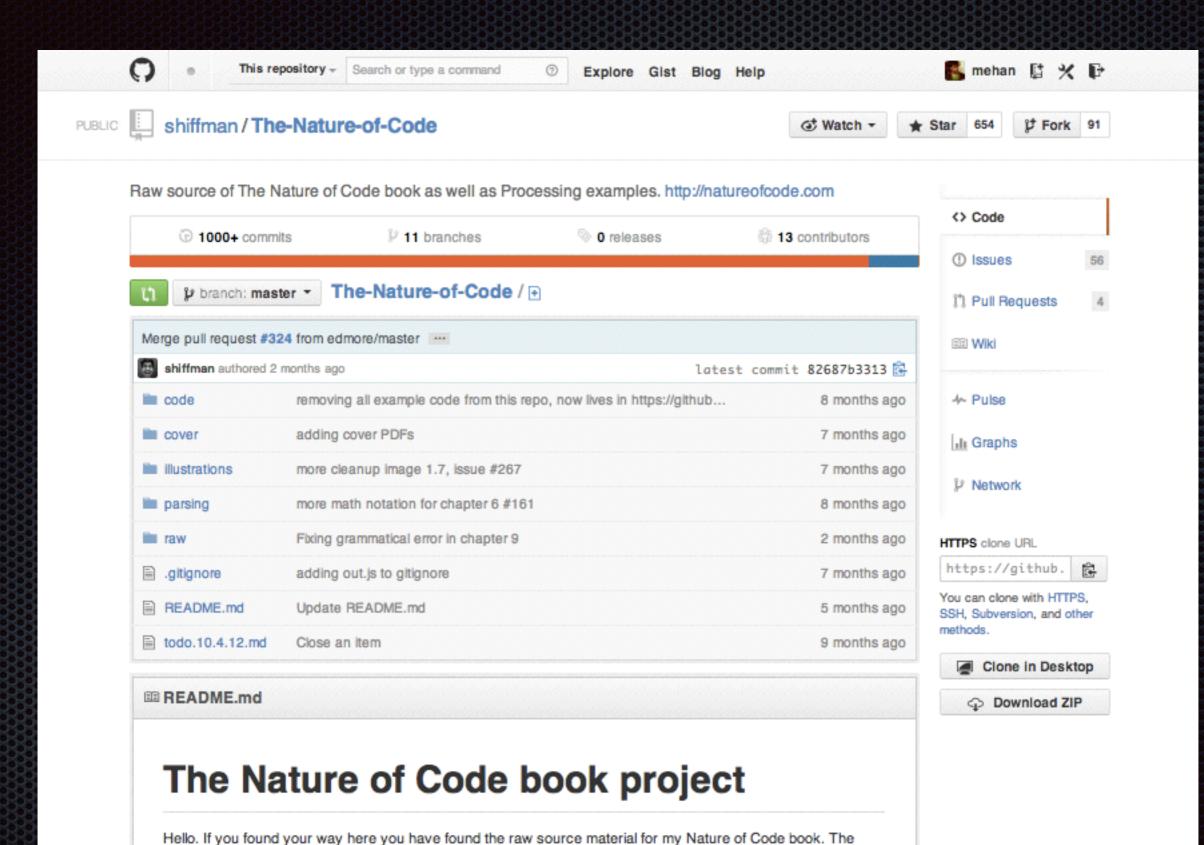




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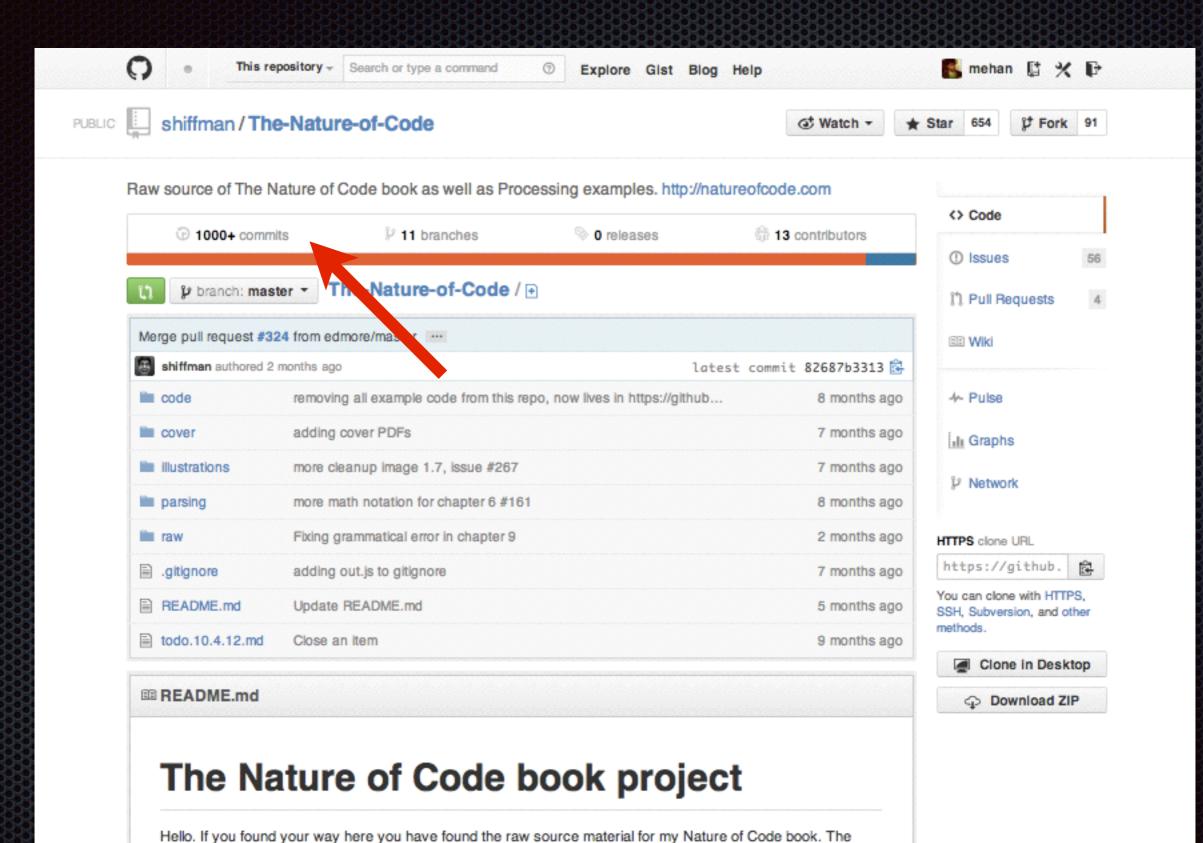
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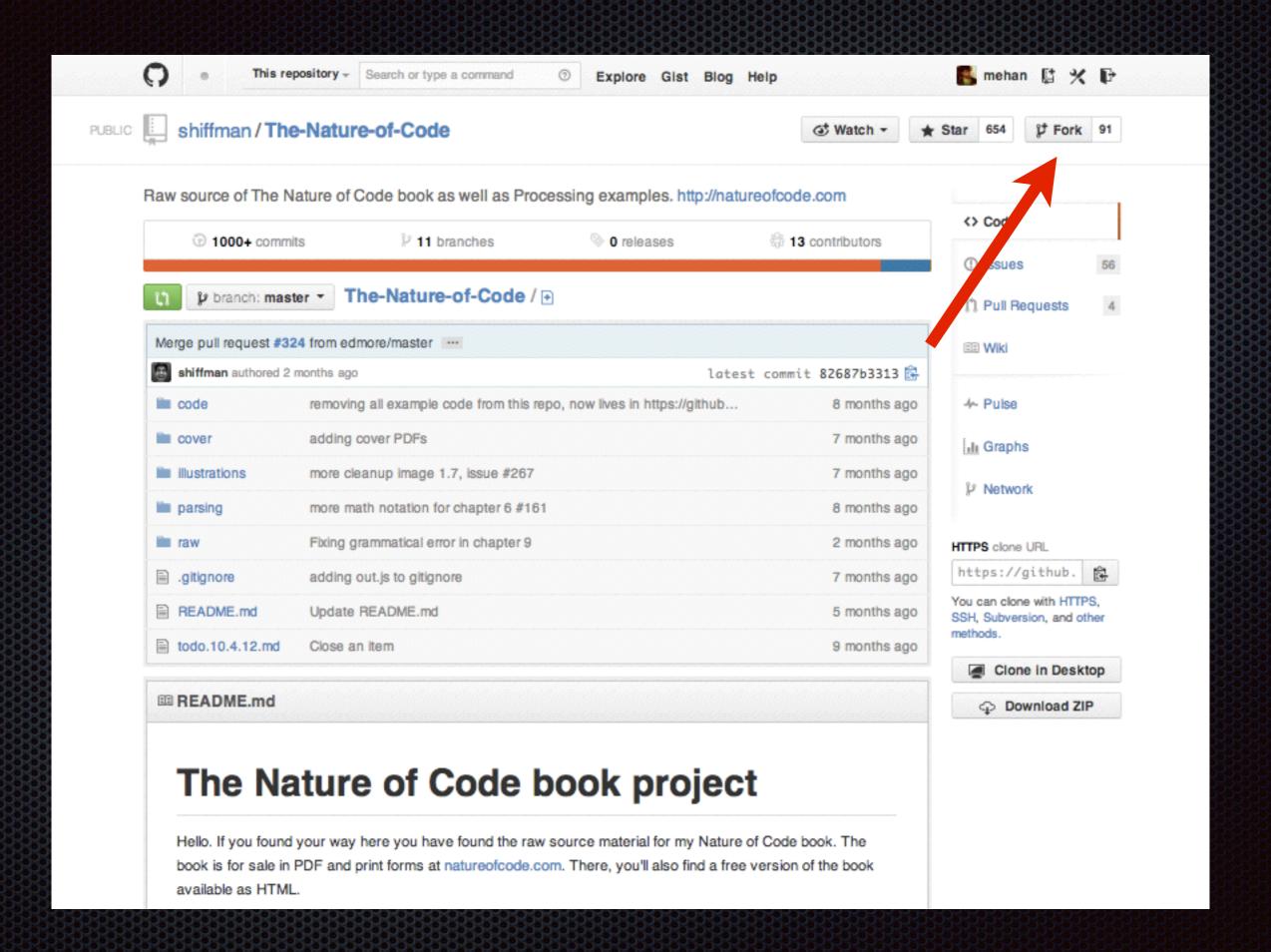
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available as HTML.

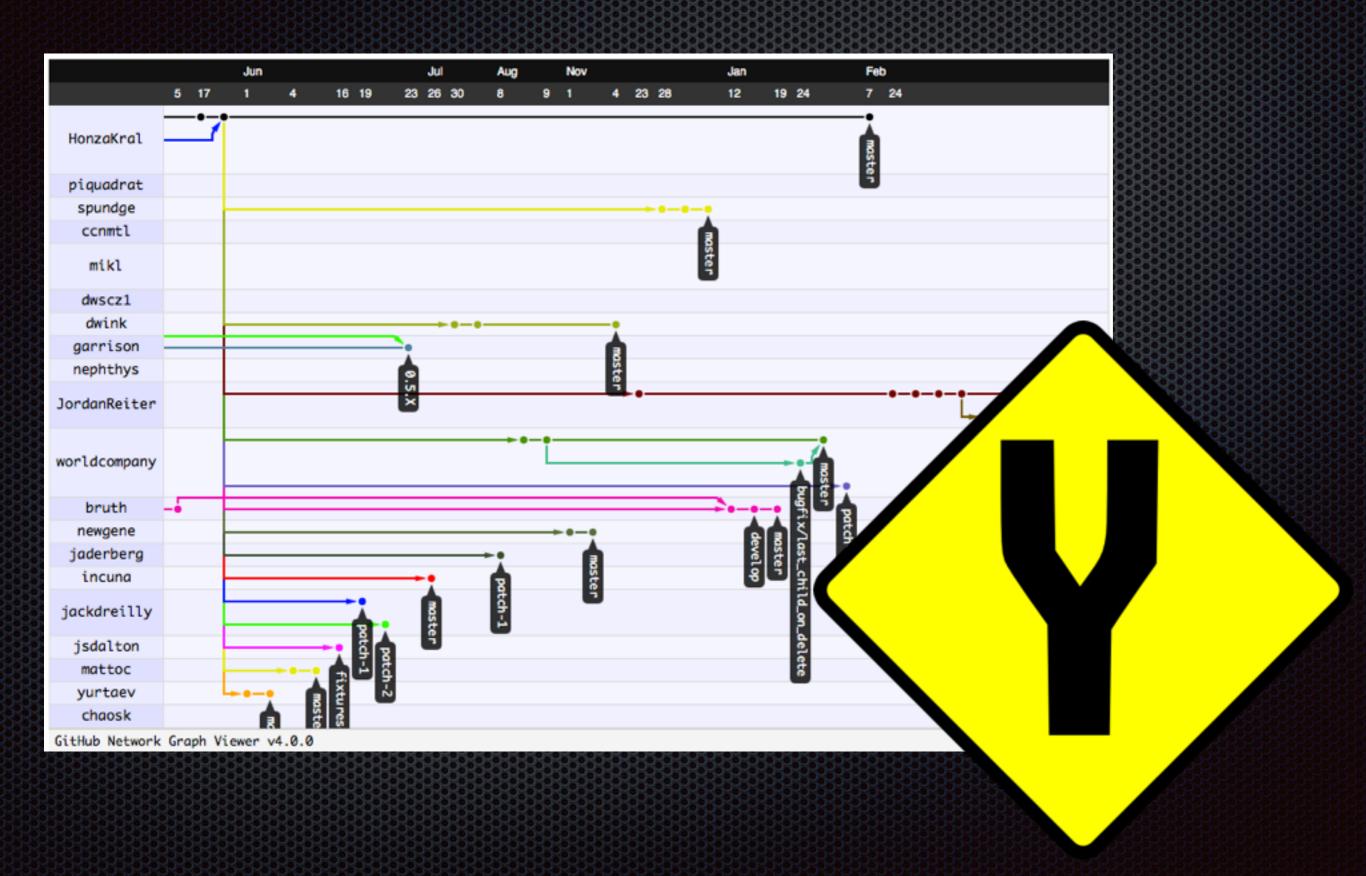


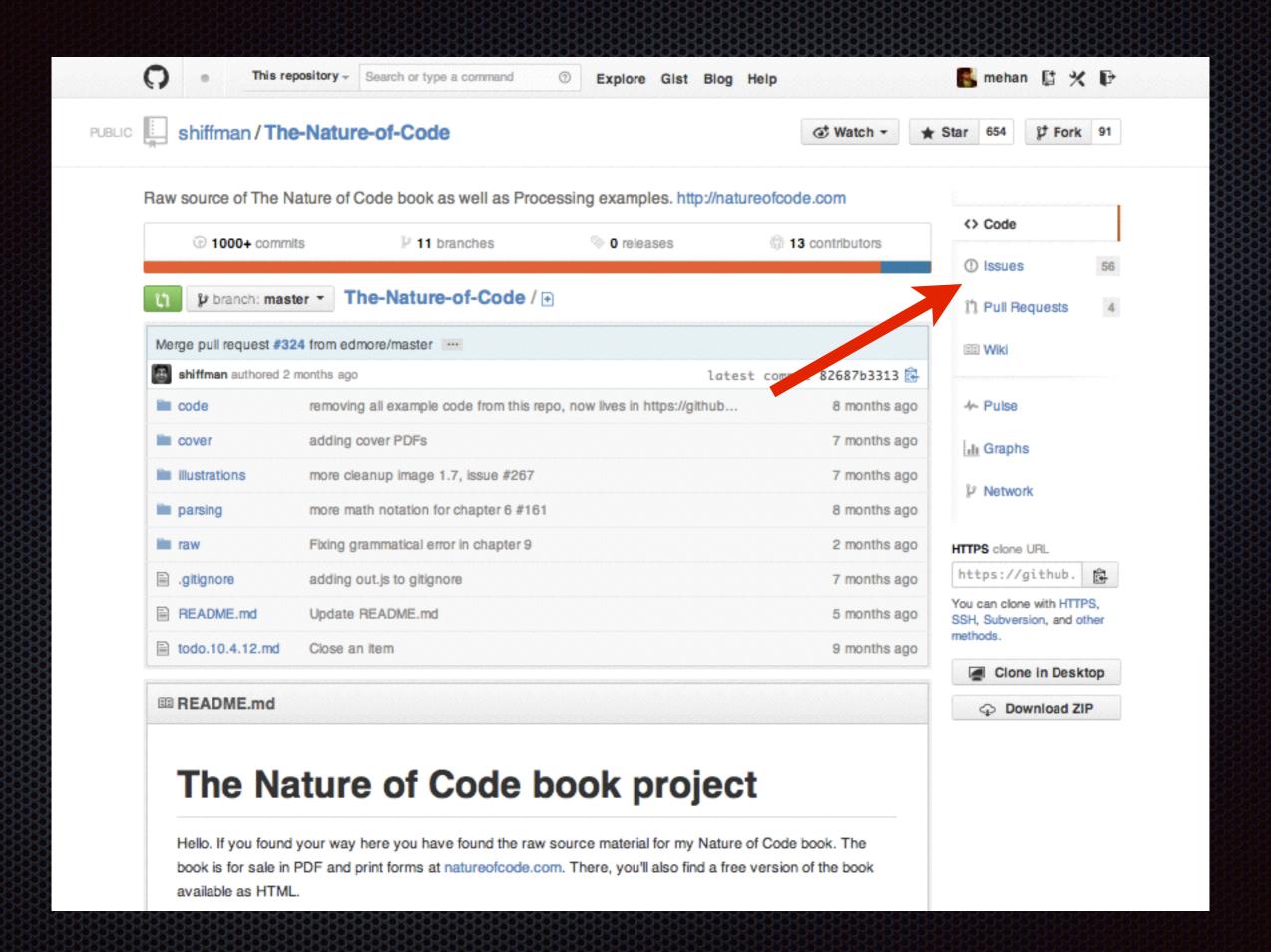
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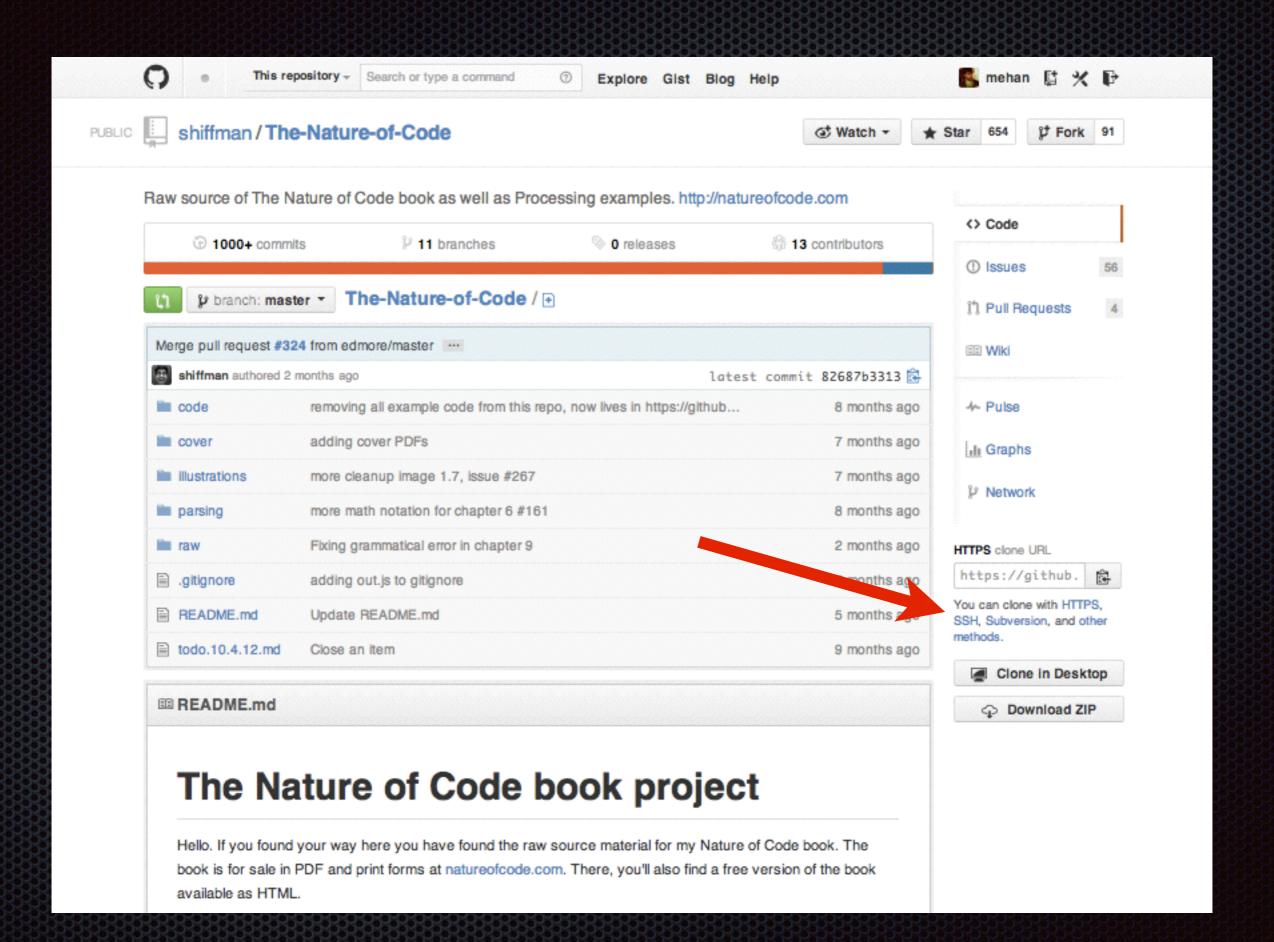
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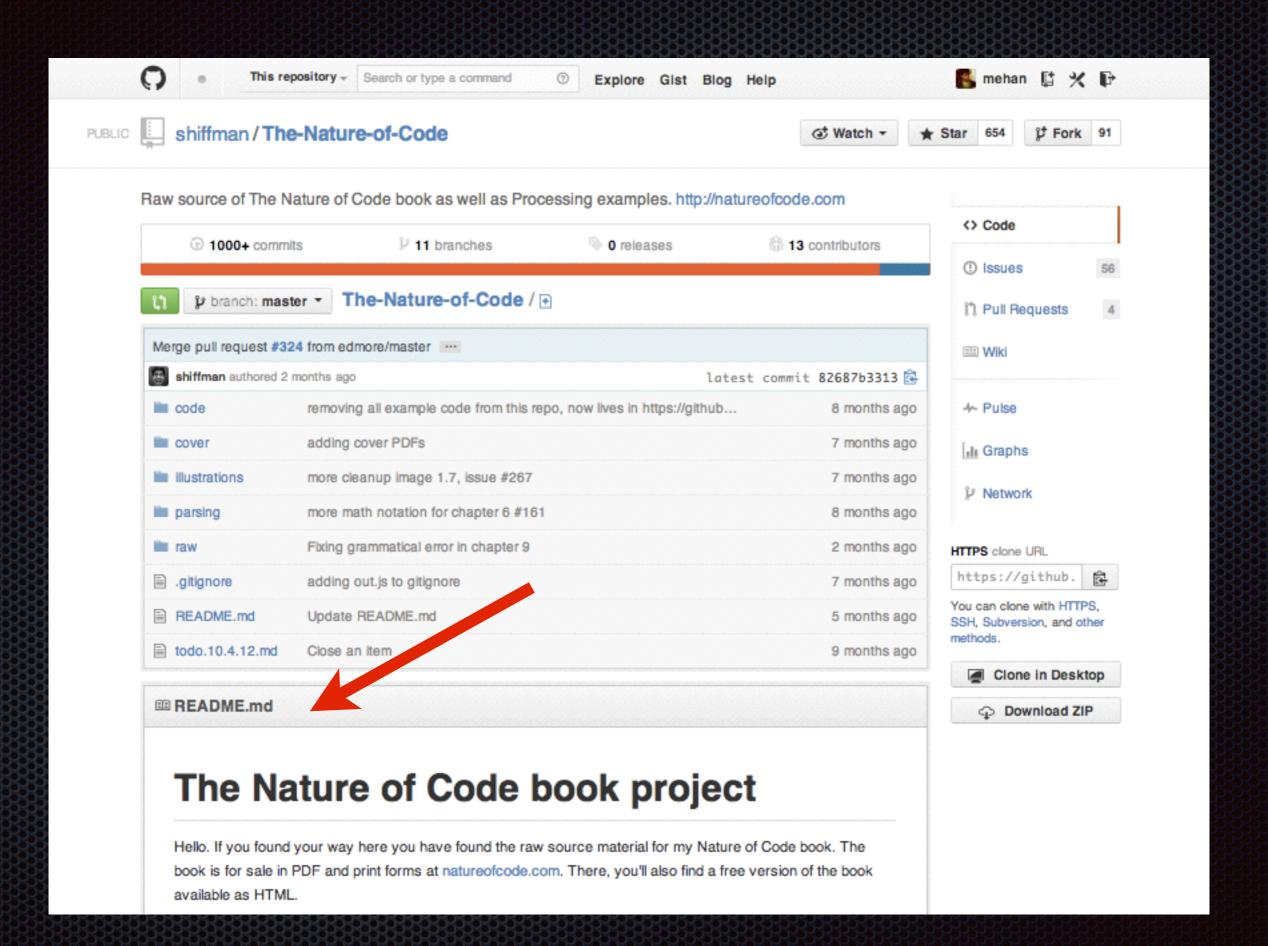


### What the fork?









GitHub repo
Repository

Your laptop









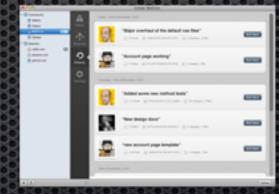
#### Terminal





GitHub repo

#### GitHub for Windows



GitHub for Mac

### Basic Git commands



git push git add git commit git pull git clone git init git remote

### Understanding git push





# git push





### Before you can git push...



git add

git commit

git push

### Before you can git push...



git add.

git commit -m "first commit!"

git push origin master

# git pull





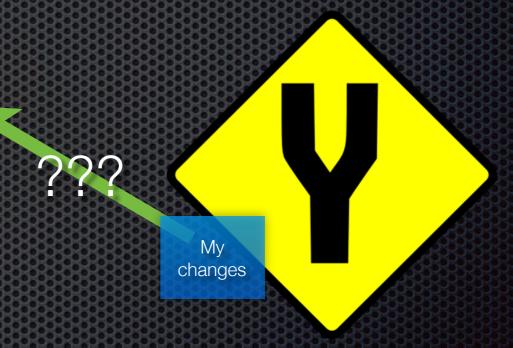
## git clone





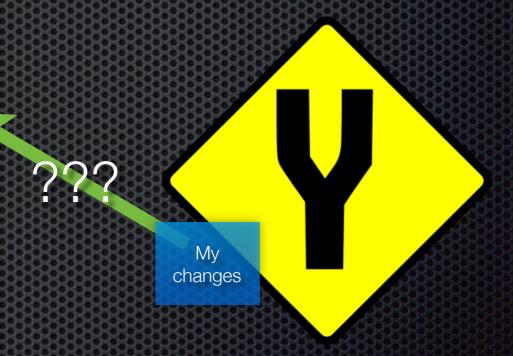
### Pull request



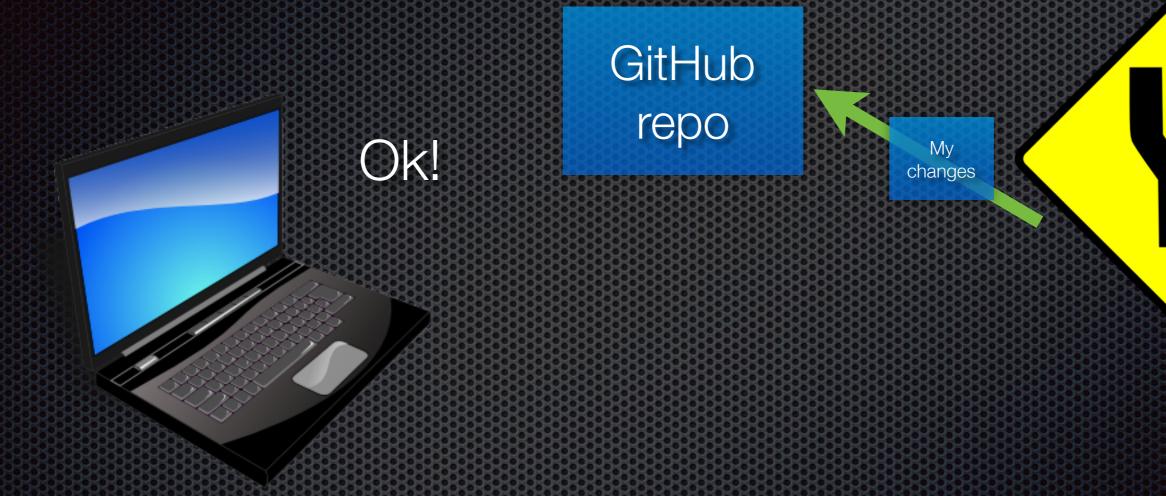


### Pull request





### Pull request



### Demo



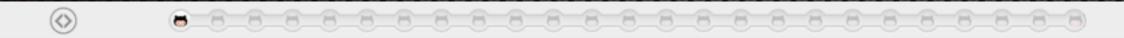
### Demo

```
git init
git remote add origin [URL]
git pull origin master

git add .
git commit -m "first commit"
git push origin master
```



### help.github.com



#### 1.2 · Checking the Status

Good job! As Git just told us, our "octobox" directory now has an empty repository in /.git/. The repository is a hidden directory where Git operates.

To save your progress as you go through this tutorial -- and earn a badge when you successfully complete it -- head over to **create a free Code School account**. We'll wait for you here.







